



DEPARTMENT OF THE NAVY

CHIEF OF NAVAL OPERATIONS
2000 NAVY PENTAGON
WASHINGTON, DC 20350-2000

IN REPLY REFER TO

OPNAVINST 13260.1A
N880E

17 September 1996

OPNAV INSTRUCTION 13260.1A

From: Chief of Naval Operations

Subj: AIR READINESS/EFFECTIVENESS MEASURING (AIREM) PROGRAM

1. Purpose. To revise procedures to manage and conduct the Air Readiness/Effectiveness Measuring (AIREM) Program. This instruction has been substantially revised and should be reviewed in its entirety.

2. Cancellation. OPNAVINST 13260.1.

3. Objective. The overall objective of the AIREM Program is to provide objective assessments of air Anti-Submarine Warfare (ASW) systems and tactics, enabling platforms to effectively counter the current submarine threat in support of "Forward...From the Sea." This is achieved by the accomplishment of the following program goals:

a. Satisfy Chief of Naval Operations (CNO) and Fleet Commanders in Chief requirements for high quality data and analyses to document the tactical performance and mission effectiveness of air ASW systems.

b. Incorporate research and analysis into the framework of Anti-Submarine Warfare Improvement Program (ASWIP) objectives, providing input to ASWIP working group chairpersons on priority issues.

c. Provide the mechanism for the identification, documentation, and tracking of deficiencies in current air ASW systems, sensors, or tactics. Recommend corrective actions and prioritization of weapon system improvement requirements.

d. Provide a source of data to validate parameters of ASW models, and to support tactical development and evaluation (TAC



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D&E) and specified research, development, test and evaluation (RDT&E) programs.

e. Maintain an AIREM database to provide efficient access to exercise data for purposes of cross-exercise analysis and to support special data requests.

4. Program Concept. AIREM Program goals will be accomplished through the planning, execution, reconstruction, and analysis of exercises involving air ASW platforms. AIREM program plans and priorities for the forthcoming year will be established at the annual Airem Planning Conference held during the May/June time frame of the preceding year.

a. AIREM exercises will support the evaluation of air ASW platforms in a full range of operational scenarios, from blue water to littoral and shallow waters. Evaluation of threats and operational environments of interest to the Fleet and the CNO (N880E) will support the quantitative assessment of the readiness and effectiveness of air ASW platforms and sensors. Data collection during AIREM exercises will support both Fleet requirements for the measurement of air ASW platform readiness and effectiveness, as well as special data requirements of the Systems Commands, Naval Laboratories, Office of Naval Intelligence, and the Naval Oceanographic Office.

b. AIREM exercises will be prioritized to provide opportunities for the collection of data in operational scenarios which best mirror the current maritime strategy.

c. Utilizing Fleet aircraft and aircrews, AIREM will conduct structured exercises in geographic areas of vital interest and on instrumented ranges. The collected data will be used in the assessment of air ASW platform effectiveness against submarine threats to national interests. Free-play exercises will be used in assessing cue-to-kill effectiveness and the adequacy of tactics in light of the threat and operational environment. Structured exercises will evaluate specific aspects of air ASW platforms, systems, and sensor capabilities, and provide baseline measurements. Variables within structured exercises will be restricted by test plans to enhance analysis of the primary exercise objective. Repeatable, controlled exercises are preferred to ensure that data quality and quantity are sufficient for analysis. Specific objectives should be formulated for both structured and free-play exercises, with data collection plans developed and executed to accomplish these objectives.

d. AIREM and TAC D&E programs complement each other. AIREM exercise results may identify areas where revised tactics may be

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required to realize gains in effectiveness. Likewise, newly developed and/or revised tactics may require additional effectiveness measurements.

e. The AIREM and the Ship ASW Readiness/Effectiveness Measuring (SHAREM) Programs are also complementary. AIREM concentrates on the tactical effectiveness and performance of air ASW assets. SHAREM, while examining total ASW effectiveness and performance for forces involved in an exercise, primarily focuses on surface ship ASW effectiveness. Where feasible and mutually beneficial, AIREM and SHAREM will work closely together in exercise planning, execution, reconstruction, and analysis.

f. The AIREM Organization shall work closely with Surface Warfare Development Group (COMSURFWARDEVGRU), Submarine Development Group TWELVE (COMSUBDEVRON 12), and other ASW organizations and programs to improve the Fleet total ASW readiness posture.

g. AIREM is an additional vehicle for the CINCs to monitor operational effectiveness. The primary contribution of the AIREM Program will be through improving system effectiveness, and establishing, evaluating and/or monitoring measures of effectiveness (MOEs) for each man-machine system.

5. AIREM Program Organization. The AIREM organization members and their primary responsibilities are:

a. CNO, Maritime Surveillance Section (N880E)

- (1) Act as the AIREM program sponsor.
- (2) Approve annual and long-range program objectives.
- (3) Convene and chair the annual AIREM Program review.
- (4) Approve an annual program plan, which includes program objectives, budget, schedule of exercises, and the designation of participating commands to conduct each exercise.
- (5) Identify funding to support the approved annual program plan.
- (6) Designate cognizant agencies for investigation and correction of deficiencies identified by AIREM exercises.

b. Program Executive Officer for Air ASW, Assault & Special Missions Programs (PEO(A)), Program Manager, Air ASW Sensors (PMA-264)

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- (1) Act as the AIREM Program Manager.
- (2) Review and submit the annual program plan, budget, and exercise schedule to CNO (N880E) for approval.
- (3) Contract for services and provide analytical and technical support to participating commands.
- (4) Provide technical direction as requested by Fleet Executive Agents and Administrative Agent in executing the AIREM Program.
- (5) Allocate sonobuoys, torpedoes and other expendables to participating commands.
- (6) Distribute funding for the AIREM Program as directed by CNO (N880E).

c. Commander Task Force TWELVE (CTF-12) and Commander Task Force EIGHT FOUR (CTF-84)

- (1) Represent the Commander in Chief Atlantic Fleet (CINCLANTFLT) and Commander in Chief Pacific Fleet (CINCPACFLT) in all facets of the AIREM Program as Executive Agents.
- (2) In consultation with CNO (N880E) and PEO(A) (PMA-264), provide guidance to the participating Wing Commands for the development of their annual program plans.
- (3) Coordinate and consult as necessary with COMMANDERS SECOND FLEET, THIRD FLEET, FIFTH FLEET, SIXTH FLEET, and SEVENTH FLEET in the architecture, planning, and conduct of AIREM exercises within the appropriate area of responsibility.
- (4) Coordinate revision and update of the AIREM 6-year plan on an annual basis.
- (5) Establish and maintain memoranda of agreement necessary to support the AIREM program in the accomplishment of program goals and objectives.
- (6) Review and approve publication of exercise results and lessons learned.
- (7) As required, represent AIREM at conferences, program reviews, exercise planning conferences, fleet scheduling conferences, and post-exercise briefings.

(8) Designate an AIREM Administrative Agent to assist in the execution of all AIREM program planning, management, coordination, operations, database management, logistics, and operations.

(9) As directed by CNO (N880E), coordinate AIREM responses to requests by outside activities for analysis products and AIREM data.

d. Air Test and Evaluation Squadron ONE (VX-1)

(1) Represent CTF 12/84 as Administrative Agent.

(2) Coordinate all AIREM activities as directed by the fleet executive agents.

(3) Coordinate and conduct direct liaison with the AIREM Participating Wing Commands and the AIREM Program Manager to develop AIREM exercise architecture and to distribute post-exercise data, findings and briefing material.

(4) Maintain the AIREM database as directed by CTF 12/84.

(5) Act as a central clearing house and coordinator for AIREM initiatives.

(6) Respond to Navy Laboratory and other agency requests for AIREM data and special data collection requirements, and coordinate requirements with participating Wing Commands.

(7) Coordinate and monitor the development of test plans, letters of instruction, data collection plans, and other exercise planning materials for AIREM participation in coordinated multi-platform exercises in which participating Wing Commands are not the Exercise Originator.

(8) Coordinate the assignment and preparation of observers for AIREM participation in coordinated multi-platform exercises and oversee the AIREM data collection effort.

(9) Support the post-exercise reconstruction and analysis effort. For coordinated multi-platform exercises in which AIREM is a participant, coordinate the timely preparation and promulgation of exercise reports and briefings.

(10) As required, attend AIREM conferences, program reviews, exercise planning conferences, Fleet scheduling conferences, and post-exercise briefings.

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(11) Conduct liaison as required to solicit inputs for the annual AIREM program plan review.

e. Participating Wing Commands

(1) In accordance with the annual AIREM program plan, the participating Wing Commands will be responsible for the planning, conduct, analysis, reconstruction, and reporting of platform-unique AIREM exercise and analysis. In the execution of platform-unique programs, the participating Wing Commands are responsible for the scheduling of required services, conduct of exercises, data collection and analysis, and the preparation and distribution of exercise reports.

(2) Coordinate with CTF-12/84, VX-1 and Area of Responsibility (AOR) commanders in the architecture, planning, and conduct of AIREM exercises.

(3) Coordinate development and delivery of AIREM exercise briefings on lessons learned to Fleet commanders.

6. AIREM Planning Process

a. AIREM Program plans and priorities for the forthcoming year will be established at the annual AIREM Planning Conference held during the May/June time frame of the preceding year. AIRTEVRON ONE, on behalf of the executive agents, will liaison with CNO (N880E), the AIREM Program Manager, Fleet and Type Commanders, the participating Wing Commands, Commander Surface Warfare Development Group (COMSURFWARDEVGRU), Commander Submarine Development Squadron 12 (COMSUBDEVRON 12), Systems Commands, Naval Laboratories, the Office of Naval Intelligence, and the Naval Oceanographic Office for inputs with respect to AIREM exercise objectives, priorities and schedule for the forthcoming year. To the maximum extent possible, these inputs should include projected exercise dates, location, scenario, objectives, and participants.

b. CNO (N880E) will chair the annual AIREM Planning Conference, which will be attended by representatives of the AIREM Program Manager, Executive Agents, Administrative Agent, Participating Wing Commands, COMSURFWARDEVGRU, COMSUBDEVRON 12, interested Navy Laboratories, the Office of Naval Intelligence, and the Naval Oceanographic Office. Topics covered during the conference should include:

(1) A review and update of the AIREM Program mission statements and objectives.

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(2) A summary of the previous year's AIREM program and a discussion of issues that may pertain to program execution.

(3) A review of the upcoming fiscal year's AIREM Program budget and current year budget execution issues.

(4) Present issues and concerns with respect to the direction of the AIREM Program.

(5) Agreement on AIREM Program budget requirements for the forthcoming year.

(6) A proposal of exercise objectives and schedule for the forthcoming year.

b. Within 1 month following the AIREM Planning Conference, the AIREM Program Manager will prepare the proposed AIREM Six-Year PLAN for submission to CNO, via the Fleet executive agents for CNO approval. Following CNO approval, the plan will be forwarded by the AIREM Program Manager.

7. AIREM Six-Year Plan

a. The AIREM Six-Year Plan will be issued to the members of the AIREM program organization and will constitute the authority for AIREM activity in the forthcoming year.

b. The components of the AIREM Six-Year Plan are:

(1) Background and review of the AIREM program.

(2) Program objectives and priorities for the forthcoming year.

(3) The AIREM program exercise plan and schedule for the forthcoming year.

(4) Tasks to be accomplished during the Six-Year plan and areas of particular concern.

(5) AIREM Schedule of Reports.

(6) Budget requirements for contract analyst support and materiel requirements such as pre-planned automatic data Processing hardware and software required for exercise planning and analytical reconstruction.

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8. Exercise Planning and Coordination. AIREM is committed to the assessment of air ASW readiness and effectiveness in coordinated, multi-platform air/surface/subsurface ASW operations. AIREM will be a participant in exercises that afford opportunities to observe air ASW assets operating as members of a multi-faceted ASW strategy. These exercises may not only involve multiple platforms and commands, but may require integration of AIREM objectives and requirements among conflicting requirements of other programs and/or Fleet requirements. Accordingly, a two-tier organizational and procedural structure is provided for exercise planning and coordination:

a. As provided in the annual AIREM program plan, designated participating Wing Commands will be responsible for the planning, conduct, analysis, and reporting of AIREM exercises that involve only one type of aircraft. Normally, such exercises will be designed and conducted to accomplish objectives specified by the participating Wing Command and will not involve outside agencies. As such, the appropriate participating Wing Commands will be designated in the AIREM Program Plan as the officer scheduling the exercise (OSE) and the officer conducting the exercise (OCE).

b. The Fleet Executive Agents, utilizing their designated Administrative Agent for AIREM, will designate a lead planner/analyst responsible for coordinating the accomplishment of all tasks required for AIREM participation in exercises in which a participating Wing Command is not the OSE or the OCE. They will be responsible for the coordination of all AIREM planning and participation in Ship Anti-Submarine Warfare Readiness/Effectiveness Measuring (SHAREM) and bi-national exercises.

9. AIREM Program Products. The AIREM Program will collect high quality data on the readiness and tactical effectiveness of air ASW platforms, systems, sensors, weapons, and tactics. Analysis of these data will be presented in terms of Measures of Effectiveness (MOEs) approved by CNO and the AIREM Program Manager. Particular attention will be paid to results which indicate design deficiencies or the need for system performance improvements. The output of the AIREM Program will be as follows:

a. Quick-look Report. The participating Wing Command or Executive Agents, as appropriate, will issue to all exercise and program participants within 30 days of exercise completion. The Executive Agents will coordinate issuance of this report with the appropriate command for all exercises in which a participating Wing Command is not the OSE.

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b. Exercise Brief. Within 30 days of exercise completion, the participating Wing Command or CTF-12/CTF-84, as appropriate, will prepare a summary briefing that will incorporate and summarize findings contained in the Quick-look Report and any additional analyses for presentation as appropriate. The briefing will be made available to the CNO, the Fleet Commanders and Type Commanders, and exercise participants, as desired. For briefings summarizing AIREM participation in SHAREM exercises, CTF-12 or CTF-84, as appropriate, will coordinate the preparation and presentation of this briefing with COMSURFWARDEVGRU.

c. Exercise Report. Within 180 days of exercise completion, the lead planner/analyst will submit a comprehensive report on exercise results to the Administrative Agent for review and forwarding. Upon final review, the Program Manager will publish the report to the distribution list contained in the annual AIREM Program Plan. The report will contain a comprehensive analysis of exercise data, conclusions, and recommendations.

d. Exercise Statistical Data Summary. Within 180 days of exercise completion, participating Wing Commands will provide selected information and data developed during the exercise reconstruction and analysis to the AIREM Administrative Agent for inclusion in the AIREM database.

e. AIREM Deficiency Identification and Tracking System. The AIREM Program Manager will generate and distribute to the Administrative Agent a quarterly report that summarizes the status of investigation and correction of AIREM identified system/sensor deficiencies.

f. Cross-Exercise Report. As designated and tasked in the annual AIREM Program Plan, periodic analysis will be accomplished on fundamental AIREM objectives and other selected topics to identify trends. The Administrative Agent will solicit topics for analysis prior to the annual AIREM Planning Conference and, in consultation with the Participating Wing Commands and the AIREM Program Manager, prioritize topics for inclusion in the annual AIREM Program Plan.

10. Action. CNO hereby delegates the development of detailed procedures required for the implementation of this instruction to the Fleet CINCs and their designated Executive Agents.

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11. Reports. The reporting requirements contained in this instruction are exempt from reports control by SECNAVINST 5214.2B.



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DIRECTOR, AIR WARFARE

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